

DISPOSABLE DIAPER WITH PADDED WAISTBAND AND LEGHOLES

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Background of the Invention

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Field of the Invention

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This is a continuation-in-part of my copending application, S.N. 093,681, September 8, 1987.

This invention relates in general to a disposable diaper and more specifically, to a disposable diaper having a padded waistband and legholes.

Description of the Prior Art

Disposable diapers have largely replaced the common cloth diaper to be worn by infants and toddlers. Disposable diapers not only can be easily discarded, but are adjustable and convenient to attach and remove. Known diapers of the disposable variety are typically capable of effective retention of liquid and solid material without having to resort to protective covers as was required by cloth diapers. Although known disposable diaper designs are generally satisfactory, several problems haven arisen in their use. The waist band and border around the legholes of prior art disposable diapers are commonly an unprotected plastic band and the like. Such bands are uncomfortable when worn and often such material is stiff, and scratches and abrades an infant's skin. In addition, known waist bands and leg bands in disposable diapers do not provide an optimum barrier against leakage and seepage, which is so desirable.

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## Summary of the Invention

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It is therefore an objective of the invention to provide a disposable diaper having padded waist and leg areas. The padding as herein disclosed covers the the plastic waistline band from inside to outside of the diaper when worn by the baby. The padding may be in the form of strips of soft pliable material, such as cotton and the like, and extends substantially around the waist. The soft padding protects the infant and toddler from scratches, irrifations, and abrasions commonly inflicted by known diaper designs. The strip of padding further performs the added function of inhibiting leakage from within the diaper. The protection provided by the padding not only exists within the waist line portion of the diaper, but is also present at the top and outside of the diaper where the skin may overlap when worn.

The disposable diaper herein disclosed further includes strips of soft material, such as cotton and the like, at the edge portions of the diaper that surrond the legs of the wearer to accomplish similar functions as the padding at the waist areas.

## Brief Description of the Drawings

Fig. 1 is a perspective view, with parts of the wasitline padding removed, of the disposable diaper of the invention.

Fig. 2 is a rear plan view showing the inside of the diaper of Fig. 1 in a flat configuration;

Fig. 3 is a partial end view, with parts in section,

showing the portion of the diaper forming the legholes in the configuration of Fig. 1.

Fig. 4 is an end view, with parts in section, showing the edge portions of the diaper forming the waist band areas.

#### Description of the Preferred Embodiment

Referring now to Figs. 1-4, there is illustrated the disposable diaper with padded waistline and legholes of the invention, generally designated by reference numeral 2. In its closed configuration as it is worn in the form of Fig. 1, the diaper 2 is formed with a typical front section 4, a back section 6, a crotch area 8, and a top portion 10 forming an adjustable waistline construction. Leg holes 12 are defined by edge portions 14 of disposable diaper 2. The diaper 2 is formed in multiple superimposed sheets of material in front section 4, back section 6 and crotch area 8, including an outer liquid impervious outer sheet 16a and an inner liquid permeable sheet 16b as is well known. One or more layers 18 (Figs. 3 and 4) of a liquid absorbent material, such as cotton, pulp and the like, is imposed between the outer sheet 16a and the inner sheet 16b as is conventional. The thickness of inner material 18 may be thickened in the crotch area 8 and elsewhere for greater liquid absorption.

The diaper 2 in its flat configuration as shown in Fig. 2 is formed as a single body 20 having enlarged end portions 22 which terminate at edges 24 that form the top waist band portion 10 shown in Fig. 1. The intermediate section 26 of body 20 includes tapered edges 28 and a central section

having opposed edges 32 that form the edge portions 14 of the leg holes 12. A pair of plastic adhesive strips 34 and the like having a detachable free end 36 are affixed on one enlarged end portion 22 of the body 20 to permit the diaper 2 to be adjustably affixed to the opposite end portion 22 to secure the diaper to the infant as in the configuration shown in Fig. 1.

Referring now to Figs. 1, 2, and 4, the waistline portion 10 is formed by border sections 40, 42 of the inner and outer sheets 16a and 16b which are affixed together. The border sections 40, 42 are fabricated from a plastic material or similar material. A outer strip 50 of soft material in the form of a strip of cotton or other non-abrasive material is bent lengthwise over the border sections 40, 42 of a plastic material and the like located on each of the enlarged sections 22 in Fig. 2 in affixed relationship by an suitable technique of attachment. The strip 50 forms surfaces 50a, 50b, and 50c that are respectively positioned from inside to outside of the diaper 2 so as to provide a soft cushion or pad substantially over the exposed surfaces of border sections 40, 42 to protect the skin of the infant or toddler and provide an additional absorbent barrier to alleviate leakage. The strip 50 may be formed as a pair of strips to generally extend 360 degrees at the waist in the configuration of Fig. 1 (one of the strips 50 being cut away in Fig. 1 for illustrative purposes).

Referring again to Figs. 1, 2, and 4, the edge portions 12 for leg holes 14 are similarly constructed as the waist

band as previously described. The plastic borders 60,62 are affixed together (Fig. 3) and are covered in affixed relationship by strips 64, 66 of a soft material, such as cotton, to cover the exposed surfaces of borders 60,62 to serve the same function at leg holes 14 as soft strips 50 at the waist band.

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